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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,419	10/29/2001	Dong Bo Yang	DE 1311	1161
75	90 03/31/2003			
David A Einhorn			EXAMINER	
Anderson Kill & Olick 1251 Avenue of the Americas			WATKINS III,	WILLIAM.P
New York, NY	10020-1182		WATKINS III, WILLIAM.P	PAPER NUMBER
			1772	
			DATE MAILED: 03/31/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Applicati n N .	Applicant(s)	
	10/018,419	YANG, DONG BO	•
Office Action Summary	Examiner	Art Unit	
	William P. Watkins III	1772	
The MAILING DATE f this communication app Period for Reply	pears on the c ver she t with	h the correspondence addre	SS
A SHORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE 3 MC	NTH(S) FROM	
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period volume is a failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply within the statutory minimum of thirty will apply and will expire SIX (6) MONT cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this comm NDONED (35 U.S.C. § 133).	unication.
1) Responsive to communication(s) filed on 29 (<u> October 2001</u> .		
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.		
Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims	ance except for formal matt Ex parte Quayle, 1935 C.D	ers, prosecution as to the n . 11, 453 O.G. 213.	nerits is
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application) .		
4a) Of the above claim(s) is/are withdray			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-20</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examine	r.		
10)☐ The drawing(s) filed on is/are: a)☐ accept			
Applicant may not request that any objection to the			
11) The proposed drawing correction filed on		sapproved by the Examiner.	
If approved, corrected drawings are required in re	•		
12) The oath or declaration is objected to by the Ex	aminer.		
Priority under 35 U.S.C. §§ 119 and 120		440() ()) (6)	
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:			
1. Certified copies of the priority document		P. C. Ale	
2. Certified copies of the priority document			
 3. Copies of the certified copies of the prior application from the International Bu * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).		ige
14) Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. §	119(e) (to a provisional ap	plication).
a) The translation of the foreign language pro			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of In	ummary (PTO-413) Paper No(s). formal Patent Application (PTO-1	
S. Batant and Trademark Office			

Art Unit: 1772

DETAILED ACTION

1. The use of the trademark Kevlar has been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner, which might adversely affect their validity as trademarks.

2. Claims 2, 9, and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Use of the trademark Kevlar is indefinite in these claims as it indicates a source of goods and not a specific generic class of material.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kalnin (U.S. 3,691,000) in view of Dubowik et al. (U.S. 5,280,091) further in view of Yamato et al. (U.S. 4,451,637).

Kalnin teaches a epoxy matrix material with layers of glass fiber roving and other types of fibers that can be made by using liquid resin in a mold with glass mats that is cured (col. 2, lines 40-65, col. 3, line 40 through col. 4, line 55, col. 7, lines 25-40). Dubowik et al. teaches the use of different epoxy cross linking systems that allow control of the cure time and temperature depending on the equipment and other needs of the formulator, along with the use of glass fiber and other fillers (col. 6, lines 60-69, col. 8, lines 5-25, and Examples 4 and 5. Yamato et al. teaches the use of various inorganic fire retardant fillers in epoxy resin systems (col. 3, lines 15-25). The instant invention claims an epoxy matrix laminate with glass fiber rovings and glass or other fibers where the liquid epoxy resin is molded with the rovings and cured ay relatively low

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temperatures and long periods of time. It would have been obvious to one of ordinary skill in the art to have selected an epoxy curing system suitable for the field production of the composites of Kalnin because of the teachings of Dubowik et al. It further would have been obvious to one of ordinary skill in the art to have used glass or other fiber filler and inorganic filler to further strengthen the matrix and increase its fire resistance because of the teachings of Dubowik et al. and Yamato et al. (U.S. 4,451,637). Drilling of holes in structural laminates to allow for fasteners is conventional.

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- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The art show various other epoxy and glass systems.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William P. Watkins III whose telephone number is 703-308-2420. The examiner works an increased flex time schedule, but can normally be reached Monday through Friday, 11:30 A.M. through 8:00 P.M. Eastern Time. The examiner returns all calls within one business day unless an extended absence is noted on his voice mail greeting.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 703-308-4251. The fax phone numbers for the organization where this application or proceeding is assigned

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are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

William A. Westrusty

WW/ww March 24, 2003

WILLIAM P. WATKINS III PRIMARY EXAMINER